TAMIRES CORRÊA MARÇAL 2020

MORLD GAPITALS

Similarity between world capitals with foursquare data

INTRODUCTION

Globalization is a natural event that has been accentuated in recent years. We see more and more cultures transposing and cities having more similarities. Nowadays we find Japanese, Mexican and Arab restaurants in a large number of world capitals.

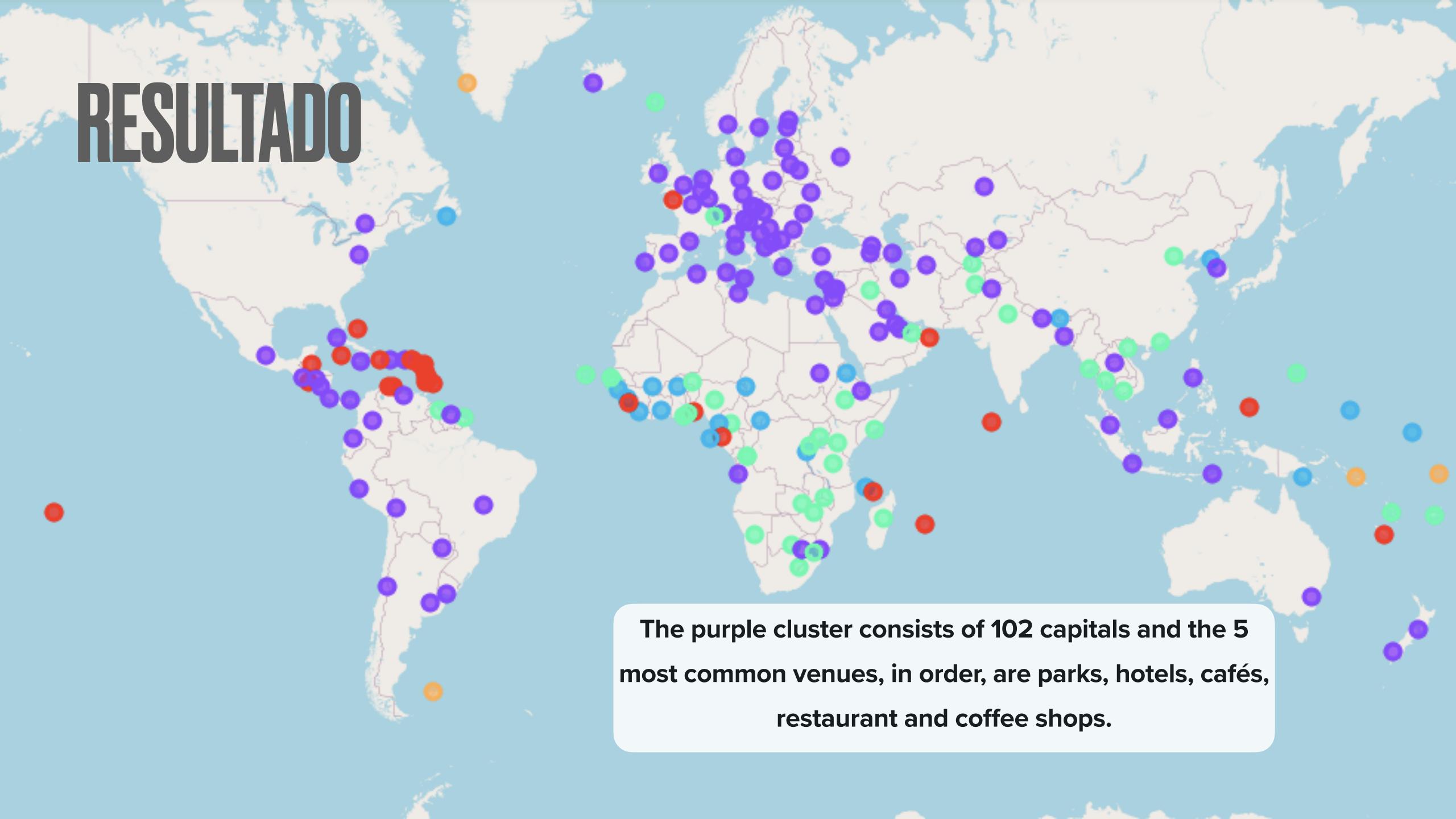
What other establishments are hallmarks of the globalization phenomenon? Which cities are most similar to each other?

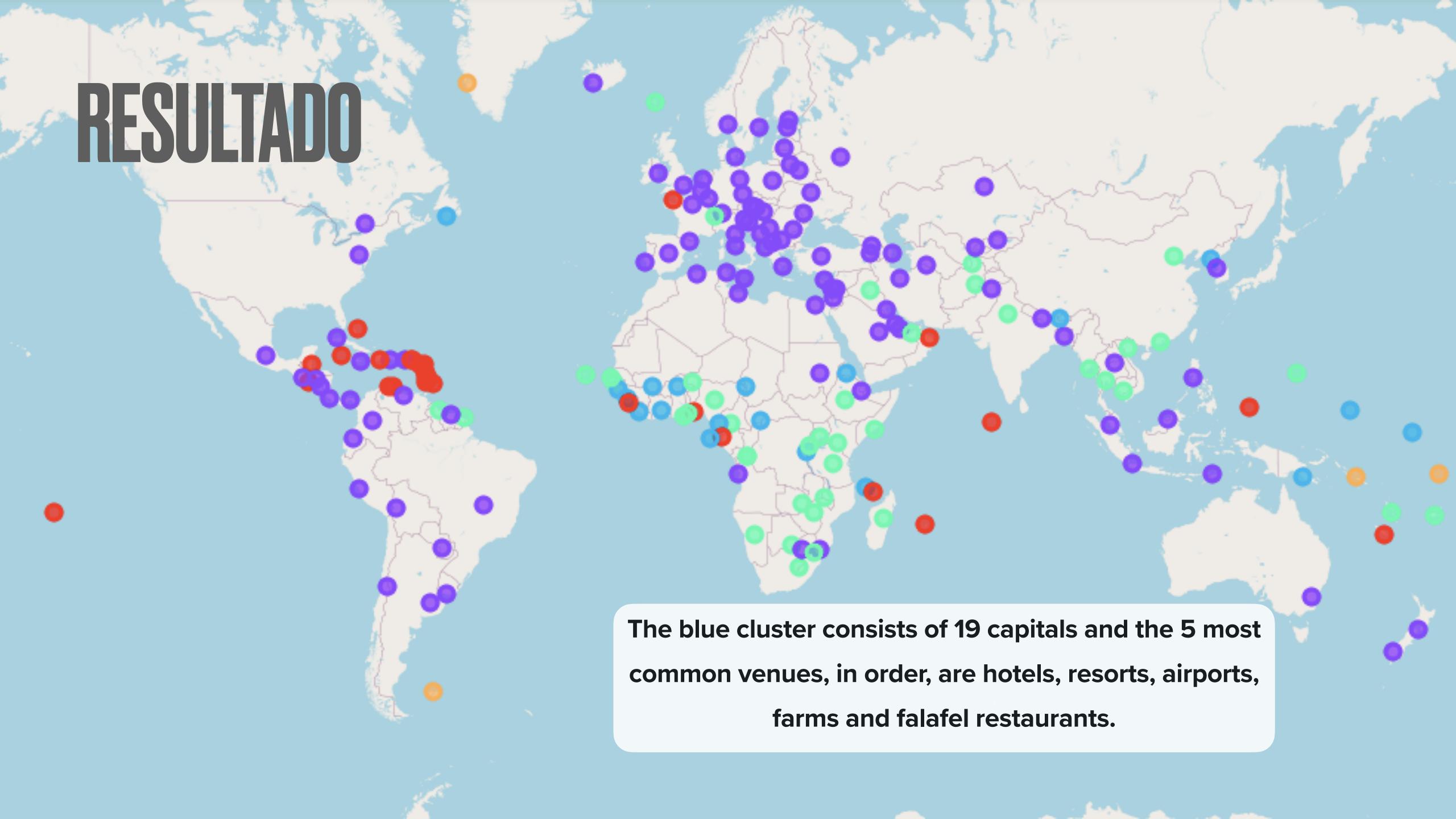
METHODOLOGY

The list of the world capitals locations is obtained at https://
lab.lmnixon.org/4th/ worldcapitals.html, it is composed of 200 entries
and the locations of the cities come in longitude and latitudes.

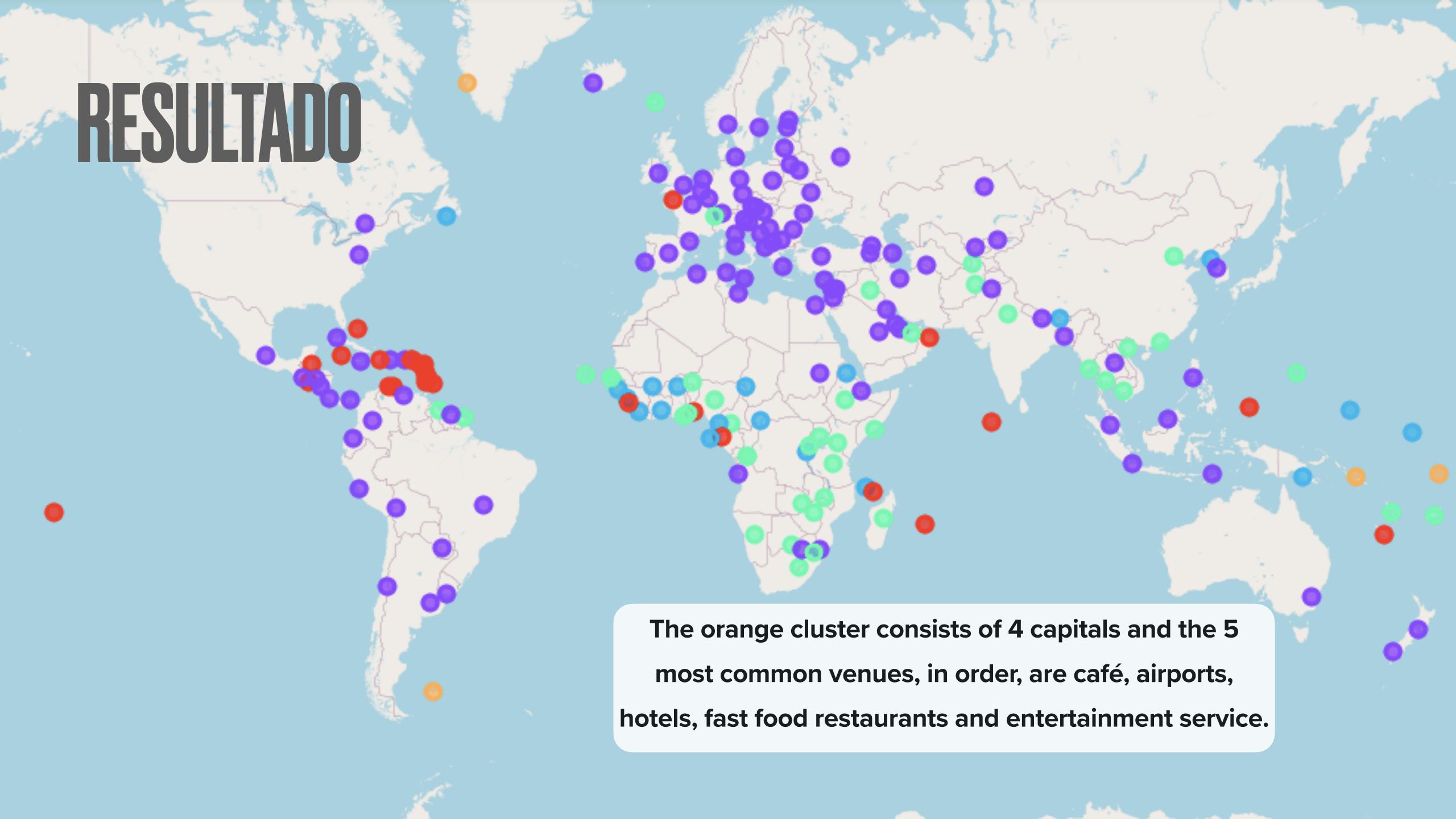
METHODOLOGY

The locations in each city come from Foursquare. The acquisition is made through the Foursquare API, which finds the venues within the radius of the informed location. Along with the number of locations found, the API provides the categories of locations, for example: hotel, cafe, historic site, Asian restaurant, etc. In this work, the chosen radius is 100,000. The goal with this large number is to get a city-sized radius and thus be able to get the most samples from locations to get a good picture of facilities across the city.









RESULTADO



DISGUSSION

We can see a strong presence of establishments related to leisure and tourism. This made it difficult to separate the groups. A suggestion for further analysis to solve this problem is to eliminate the most common establishments, stay with those that really characterize a place.

Looking further at this challenge, two hypotheses arose as to why this database presents this similarity between the entries. If it is a bias brought by Foursquare, it may be because Foursquare has become strong within the leisure and tourism niche. Now, if it is due to the moment of history of these cities that the data were collected, we can imagine that in the stage of globalization in which we find ourselves in the 21st century, these are expected to be the most common establishments. To test these hypotheses, further analysis is needed.